

TTCGGATCCTTGGACCTTCCCGGTTCTTCTACCCCATTCTGGCCCTTGAGCCCAGGGAGCGAGGGCAGTG
TGGTTAATGGGGAGAGCCATGCATCCGGGACCACCCTCTCACAGACTGCCTGCGAAGATTTACCAGACC
AGAGCACTTAGGAAGCAGTGCCAAGATCAAGTGTAGCGGTTGCCATAGCTACCAAGAGTCCACAAAGCAG
CTCACCATGAAGAAGCTGCCCATTGTGGCCTGTTTCCATCTCAAACGATTTGAACACTCAGCCAAACTTC
GGCGGAAGATCACCACATATGTGTCTTTTCCCCTGGAAC TGACATGACGCCCTTCATGGCCTCCAGCAA
AGAGAGCAGGATGAATGGGCAATACCAGCAGCCCCTGGACAGTCTCAACAATGACAACAAATACTCCCTG
TTTGCTGTCGTTAACCATCAAGGGACCTTGGAGAGTGGCCACTACACCAGCTTCATCCGGCAGC
ACAAAGACCAGTGGTTCAAGTGTGATGACGCCATTATCACCAAGGCCAGCATCAAAGATGTACTGGACAG
TGAAGGGTACTACTCTTCTATCACAAACAGTTCCTGGATTACGAGTAGCTCCTGCCTTGCTGGCCAGAGA
AAGAGAGAGA (SEQ ID NO:1)

FIGURE 1

underlined = deleted in targeting construct

[] = sequence flanking Neo insert in targeting construct

TTCGGATCCTTGGACCTTCCCGGTTCTTCTACCCCATTCCTGGCCCTTGAGCCCAGGGAGC
GAGGGCAGTGTGGTTAATGGGGAGAGCCATGCATCCGGGACCACCACTCTCACAGACTGC
CTGCGAAG [ATTTACCAGACCAGAGCACTTAGGAAGCAGTGCCAAGATCAAGTGTAGCGGT
TGCCATAGC] TACCAAGAGTCCACAAAGCAGCTCACCATGAAGAAGCTGCCCATTTGTGGCC
TGTTTCCATCTCAAACGATTGAACTCAGCCAACTTCGGCGGAAGTCACCACATAT
GTGTCTTTCCCCTGGAAGTGGACA [TGACGCCCTTCATGGCCTCCAG] CAAAGAGAGCAGG
ATGAATGGGCAATACCAGCAGCCCCCTGGACAGTCTCAACAATGACAACAAATACTCCCTG
TTTGCTGTCGTTAACCATCAAGGGACCTTGGAGAGTGGCCACTACACCAGCTTCATCCGG
CAGCACAAAGACCAGTGGTTCAAGTGTGATGACGCCATTATCACCAGGCCAGCATCAAA
GATGTACTGGACAGTGAAGGGTACTACTCTTCTATCACAAACAGTTCCTGGATTACGAGT
AGCTCCTGCCTTGCTGGCCAGAGAAAGAGAGAGA

Gene Sequence
Structure *

190 bp

Sequence Deleted

325 bp

Size of EST
contig: 634 bp

FIGURE 2A

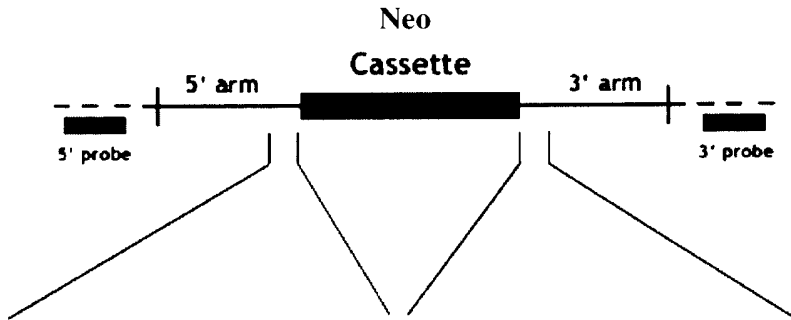
Targeting Vector* (genomic sequence)

Construct Number: 2869

Arm Length:

5': 0.4 kb

3': 3.5 kb



———— Targeting Vector
- - - - - Endogenous Locus

* Not drawn to scale

5'>AGATGACACCTTTAACTACTG
GTGAACTTTGAGTGATAAAATAAT
CTGTTCCTCTTCTTCCATGTCCT
CATGTCTTTTACTTTTCCCTTTC
CATGTCTTATTTTAAATAAAAC
ACGTTTTFAAATGCTTTGTAGAT
TTACCAGACCAGAGCACTTAGGAA
GCAGTGCCAAGATCAAGTGTAGCG
GTTGCCATATC<3' (SEQ ID
NO: 2)

5'>TGACGCCCTTCATGGCCTCCA
GGTAGAAAGGTTGGTGCTCCTGT
GTCTGAGTGGGAAGGCAAGTTGTC
TAGTGGGTGCTTACCCAGTGCCAG
CCTTTAGACATGGTAATGACAGCT
ATCCAGGCCTCACCGCCACCCAG
AACTTACCTAAGCTTACTGTGGGC
TACCCATTTGTACTCTTAACATCC
CTCATCATTTA<3' (SEQ ID
NO: 3)

FIGURE 2B